

LISTING OF CLAIMS

Claims 1-8 (Canceled).

Claim 9 (Currently Amended): A computer-readable recording medium
~~recording a program described without depending on analog hardware, software for~~
receiving and transmitting a radio signal, comprising:

an application program including a plurality of analog-hardware-independent
instructions configured to receive and transmit the radio signal independently of
analog hardware; and

a software library configured to control analog hardware,

~~wherein said the application program allows a receiving and transmitting~~
~~process for a radio signal by referring to a library serving as a program described by~~
~~depending on said analog hardware for executing the receiving and transmitting~~
~~process for receiving and transmitting said radio signal so as to control said analog~~
~~hardware~~ is configured to enable a radio communication apparatus to receive and
transmit the radio signal by referring to the software library to selectively convert the
plurality of analog-hardware-independent instructions to control the analog hardware
when the radio communication apparatus includes the analog hardware and the
analog-hardware-independent instructions can be implemented on the analog
hardware.

Docket No. 248173US-2 CONT
Inventor: Hiroshi YOSHIDA, et al.

Claim 10 (Currently Amended): ~~An apparatus according to claim 1~~ A radio communicating apparatus comprising:

a receiving and transmitting device configured to receive and transmit a radio signal;

an A/D converter configured to convert said radio signal which has been received into an incoming digital signal and output the incoming digital signal;

a D/A converter configured to convert an outgoing digital signal into said radio signal and output the radio signal;

a digital signal processing device configured to perform a digital signal processing for an output of said A/D converter and for an input of said D/A converter;

a controller configured to control at least one of said receiving and transmitting device, said A/D converter, said D/A converter, and said digital signal processing device by referring to a library including a group of software for implementing a predetermined radio facility and executing predetermined software on basic software, wherein

said receiving and transmitting device ~~comprises~~ includes an analog device configured to perform an analog signal process and a digital device configured to perform a digital signal process, and

said controller ~~for, in the case where a same facility can be implemented by both of said analog device and said digital device, selecting~~ selects one of said analog device and said digital device and ~~accomplishing the~~ accomplishes a facility ~~or by~~ preferentially selecting one of said analog device and said digital device ~~and~~

Docket No. 248173US-2 CONT
Inventor: Hiroshi YOSHIDA, et al.

~~accomplishing the facility~~ when the facility can be implemented by at least one of said analog device and said digital device.

Claim 11 (Original): An apparatus according to claim 10, wherein
the selection by said controller is executed using said software by referring to said library.

Claim 12 (Canceled).

Claim 13 (Currently Amended): A radio communicating apparatus
comprising:

hardware including an analog device and having a receiving and transmitting device configured to receive and ~~transmitting to~~ transmit a radio signal;

an application ~~which runs~~ configured to run on basic software depending on said hardware and ~~has~~ having a group of commands for receiving and transmitting said radio signal; and

a library ~~for enabling~~ configured to enable said hardware to be controlled by said application, even if said group of commands which said application has do not depend on said hardware, by converting the group of commands of the application, which depends on said hardware and ~~which said application has~~, into ~~the~~ a group of commands for controlling said hardware,

wherein said library selectively converts said group of commands to control

Docket No. 248173US-2 CONT
Inventor: Hiroshi YOSHIDA, et al.

said analog device when said group of commands can be converted to control said analog device.

Claim 14 (Canceled)

Claim 15 (New): A radio communicating apparatus comprising:
means for communicating by radio including an analog device and means for receiving and transmitting a radio signal;
means for running a group of commands for receiving and transmitting said radio signal on basic software depending on said means for communicating by radio; and
means for enabling said means for communicating by radio to be controlled by said means for running a group of commands, even if said group of commands does not depend on said means for communicating by radio, by converting the group of commands, which depends on said means for communicating by radio, into a group of commands for controlling said means for communicating by radio.